



Interoffice Memo
Office of Design Policy & Support

DATE: 3/2/2020

FILE: P.I.# 0015532
Banks County / GDOT District 1 - Gainesville
SR 51 @ Hudson River in Homer
Bridge Replacement

FROM:  for Brent Story, State Design Policy Engineer

TO: SEE DISTRIBUTION

SUBJECT: APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Carol Comer, Director, Division of Intermodal
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Kim Nesbitt, Program Delivery Administrator
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Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Erik Rohde, State Project Review Engineer
Monica Flournoy, State Materials Engineer
Patrick Allen, State Utilities Engineer
Eric Conklin, State Transportation Data Administrator
Attn: Systems & Classification Branch
Benny Walden, Statewide Location Bureau Chief
Rob Mabry, Acting District Engineer
Sue Anne Decker, District Preconstruction Engineer
Yulonda Pride-Foster, District Utilities Manager
Darrell Richardson, Project Manager
BOARD MEMBER - 9th Congressional District



Limited Scope Project Concept Report

Project Type: Bridge Replacement P.I. Number: 0015532
GDOT District: 1 County: Banks
Federal Route Number: N/A State Route Number: 51
Project Number: N/A

Replacement of SR 51 Bridge over the Hudson River in Banks County

Report updated 2-7-2020 to address review comments

Submitted for approval:

James F. Smith 10/24/2019
Consultant Designer, Atkins Date 12-04-19
Kimberly W. Jacob
State Program Delivery Administrator Date
Scott M. Hall C.L.B. 11-19-19
GDOT Project Manager Date

Recommendation for approval:

* Recommendations on file - KLP

*Eric Duff 2-12-2020
State Environmental Administrator Date
*Chris Raymond 12-10-2019
For State Traffic Engineer Date
*Bill DuVall 2-17-2020
State Bridge Engineer Date
*Sue Anne Decker 12-19-2019
For District Engineer Date

- ☐ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
☒ Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

R. Paul Janner 12-6-19
State Transportation Planning Administrator Date

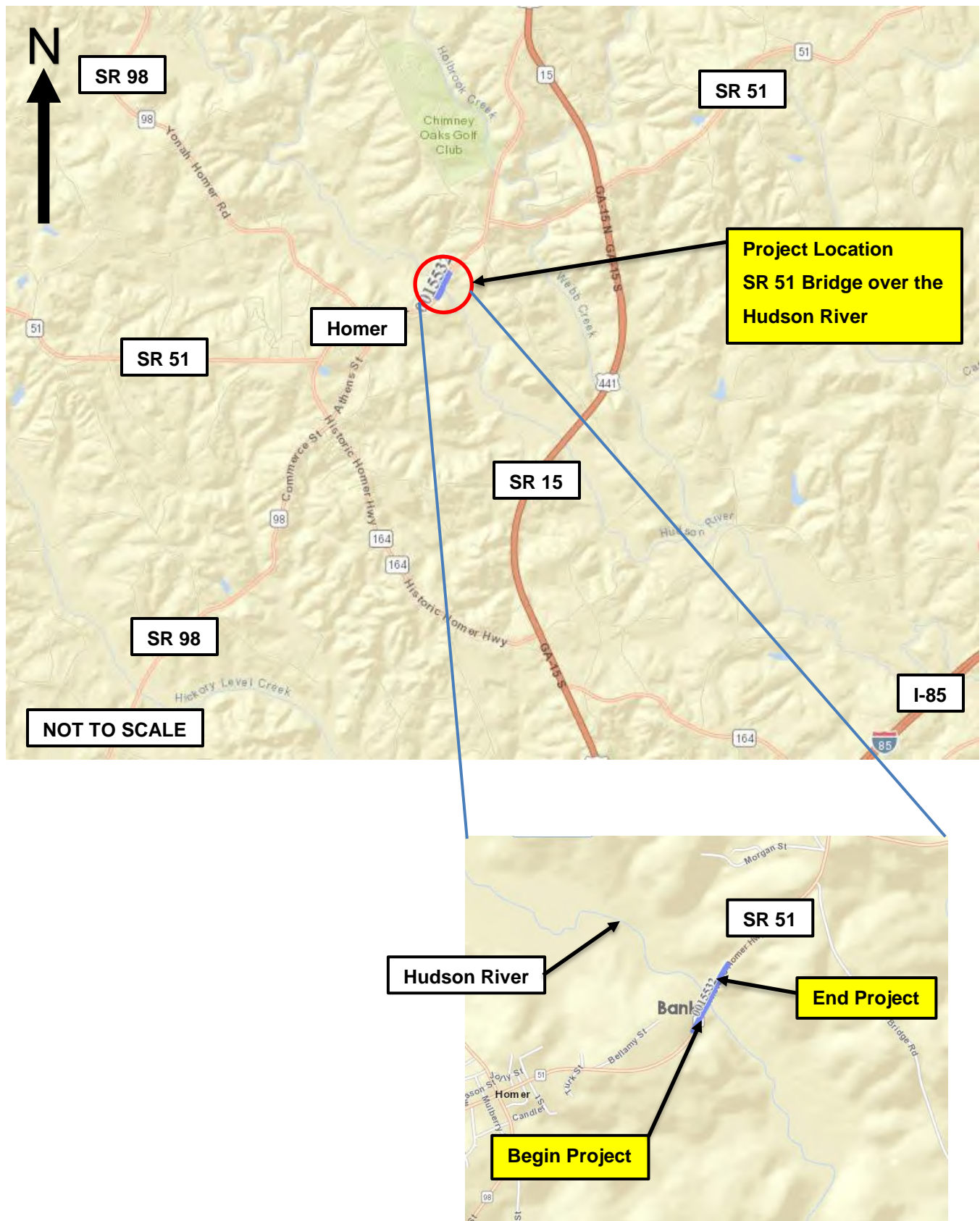
Approval:

Concur: *Hilary Rittel* 2/28/2020
GDOT Director of Engineering Date

Approve: *Margaret B. Pivels* 3/2/20
GDOT Chief Engineer Date

*Monica Flournoy, State Materials Engineer, recommended on 12-6-2019
*Alan Hood, Airport Safety Data Program Manager, recommended on 12-6-2019
*Albert Shelby, Director of Program Delivery, recommended on 12-10-2019
*Marcela Coll, State Utilities Pre-Construction Manager, recommended on 1-24-2020
*Joshua Taylor, Assistant State Project Review Engineer, recommended on 2-12-2020

PROJECT LOCATION MAP



County: Banks

PLANNING & BACKGROUND DATA

Prepared By: *Atkins* **Date:** *1/8/2020*

Project Justification Statement (Office of Bridge Design): The bridge on State Route (SR) 51 over Hudson River, Structure ID 011-0004-0, was built in 1937 and widened in 1979. Both the original and widened portion of the bridge consists of six spans of reinforced concrete beams on concrete caps with concrete columns. The existing structure used an AASHTO H-15 design loading, which is below current design standards. The foundation elevations are unknown; therefore, the bridge cannot be properly evaluated for the effects of scour, classifying the bridge as scour critical. The deck is in fair condition with hairline cracking on the underside of the deck as well as cracking in the overlay in the widened section. The superstructure is in fair condition with the original beams exhibiting signs of cracking. In addition, beams 1 and 7 also have spalls. The substructure is in fair condition with cracking present in the abutment and exposed footings at bent five. Previous repairs to the caps have deteriorated. Due to the age of the structure, not meeting current design standards, and unknown footing elevations, replacement of this bridge is recommended.

Existing conditions: The existing typical section on SR 51 over Hudson River consists of two 12 foot travel lanes, one each direction. Additionally, SR 51 consists of Structure ID 011-0004-0 which is a bridge that consists of 6 concrete spans on concrete caps with concrete columns. The bridge deck width is 46.9 feet and the bridge roadway width is 44.1 feet with 10 feet shoulders on both sides of the bridge. The total length of bridge is 228 feet.

Other projects in the area:

- PI No. 0015436 DB Bridge Replacement @ 5 Locs in District 1, under construction
- PI No. 0013935 SR 15/US 441 SB @ Grove Creek, bridge replacement, estimated construction 2022

MPO: N/A - not in an MPO

TIP #: N/A

Congressional District(s): 9

Federal Oversight: ☐ PoDI ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic: 24 HR T: 10.5 % Current Year (2019): 3275
 Open Year (2024): 3350 Design Year (2044): 3700

Traffic Projections Performed by: Atkins

Date approved by the GDOT Office of Planning: *8/1/2019*

AASHTO Functional Classification (Mainline): Major Collector

AASHTO Context Classification (Mainline): Rural

AASHTO Project Type (Mainline): Construction on existing roads

Is the project located on a NHS roadway? ☒ No ☐ Yes

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:

Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit

Pavement Evaluation and Recommendations

Initial Pavement Evaluation Summary Report Required? ☒ No ☐ Yes

Feasible Pavement Alternatives: ☒ HMA ☐ PCC ☐ HMA & PCC

Is the project located on a Special Roadway or Network? ☒ No ☐ Yes *Network*

Is the project located on or intersect an RTOP corridor? ☒ No ☐ Yes

Is Federal Aviation Administration coordination anticipated? ☒ No ☐ Yes

County: Banks

DESIGN AND STRUCTURAL

Description of Proposed Project: The project proposes to replace GDOT Bridge 011-0004-0 on SR 51 over Hudson River in Banks County, located 0.3 miles east of Homer. The total length of the project is approximately 0.5 miles, beginning approximately 0.3 miles south of the existing bridge abutment and ending approximately 0.2 miles north of the existing bridge abutment. The proposed bridge will be reconstructed on new alignment east of the existing structure. The proposed bridge will be approximately 252 feet long by 43.25 feet wide.

Major Structures:

Structure	Existing	Proposed
011-0004-0	SR 51 consists of Structure ID 011-0004-0 which is a bridge that consists of 6 concrete spans on concrete caps with concrete columns. The bridge deck width is 46.9 feet and the bridge roadway is 44.1 feet including 10 feet shoulders on both sides of the bridge. The bridge equals 228 feet in total length.	The proposed structure is approximately 252 feet long by 43.25 feet wide. This includes two 12 feet lanes and 8 feet shoulder on both sides of the bridge.

Accelerated Bridge Construction (ABC) techniques anticipated: ☒ No ☐ Yes

SR 51 over the Hudson River bridge will not use (ABC) techniques during construction. The rural location and low traffic volumes do not meet warrants for ABC techniques.

Mainline Design Features:

SR 51	Functional Classification: <i>Major Collector</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	2		2
- Lane Width(s) (-ft)	12	11-12	12
- Median Width (-ft) & Type	N/A	N/A	N/A
- Shoulder Width (-ft) (Outside)	4-6.5	10 (4)	10 (4)
- Border Area Width (-ft)	N/A	N/A	N/A
- Cross Slope (%)	Unknown	2	2
- Outside Shoulder Slope (%)	N/A	6	6
- Inside Shoulder Width (-ft)	N/A	N/A	N/A
- Sidewalks (-ft)	N/A	N/A	N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed (mph)	55		55
Design Speed (mph)	Unknown	55	55
Minimum Horizontal Curve Radius (-ft)	Unknown	1060	1300
Maximum Superelevation Rate (%)	Unknown	6	6
Maximum Grade (%)	Unknown	7	6
Access Control	Permit	Permit	Permit
Design Vehicle	N/A		WB-67
Check Vehicle	N/A		N/A
Pavement Type	Asphalt		Asphalt

*According to current GDOT design policy if applicable

County: Banks

Design Exceptions/Design Variances to FHWA or GDOT Controlling Criteria anticipated:

None

Design Variances to GDOT Standard Criteria anticipated: None**Lighting required:** ☒ No ☐ Yes**Off-site Detours Anticipated:** ☒ No ☐ Undetermined ☐ YesIf yes: Roadway type to be closed: ☐ Local Road ☐ State RouteDetour Route selected: ☐ Local Road ☐ State RouteDistrict Concurrence w/Detour Route: ☒ No/Pending ☐ Received *Date***Transportation Management Plan [TMP] Required:** ☐ No ☒ YesIf Yes: Project classified as: ☒ Non-SignificantTMP Components Anticipated: ☒ TTC**INTERCHANGES AND INTERSECTIONS****Interchanges/Major Intersections:** None**Intersection Control Evaluation (ICE) Required:** ☒ No ☐ Yes**Roundabout Concept Validation Required:** ☒ No ☐ Yes ☐ Completed *Date***UTILITY AND PROPERTY****Railroad Involvement:** None**Utility Involvements:**

Electricity – Jackson EMC

Water – Town of Homer Water

Telecommunications - Windstream

SUE Required: ☒ No ☐ Yes**Public Interest Determination Policy and Procedure recommended?** ☒ No ☐ Yes**Right-of-Way (ROW):** Existing width: 100 ft. Proposed width: 160 ft.Required Right-of-Way anticipated: ☐ None ☒ Yes ☐ UndeterminedEasements anticipated: ☐ None ☒ Temporary ☐ Permanent * ☐ Utility ☐ Other* *Permanent easements will include the right to place utilities.** *Permanent easements include the right to place utilities.*

Anticipated total number of impacted parcels:		7
Displacements anticipated:	Businesses:	0
	Residences:	0
	Other:	0
Total Displacements:		0

County: Banks

Location and Design approval: ☐ Not Required ☒ RequiredImpacts to USACE property anticipated? ☒ No ☐ Yes ☐ Undetermined

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document: NEPA ~ PCE

Level of Environmental Analysis:

- ☒ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- ☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

GDOT MS4 Permit Compliance – Is the project located in a GDOT MS4 area? ☒ No ☐ YesIf yes, is the GDOT MS4 Permit anticipated to apply to all or part of this project? ☐ No ☐ YesIs Non-MS4 water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: The proposed project would require a Section 404 Permit and Buffer Variance if construction were to impact Hudson River and its buffer. No survey will be conducted for the presence of bats, as the presence is assumed in Banks County using a programmatic agreement with the USFWS. Bat presence is assumed based on suitable habitat and range of the species.

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ YesCarbon Monoxide hotspot analysis required? ☒ No ☐ Yes

NEPA/GEPA Comments & Information:

NEPA: The anticipated environmental document for the proposed project is a Programmatic Categorical Exclusion. Should the project require formal Section 7 or a transportation use from a nearby Section 4(f) resource (resulting in a 4(f) Evaluation) a Categorical Exclusion would be required.

Ecology: An Ecology report has not been prepared. Early Coordination with the Georgia Department of Natural Resources and US Fish and Wildlife Service is underway. A field survey will commence following this coordination. The National Wetlands Inventory showed two wetlands in the project area in addition to the river. A Section 404 permit could be required if the river is affected by the replacement of the proposed bridge.

History: A History report has not yet been prepared. A desktop survey identified 3 properties greater than fifty years of age within the project area. A field survey will be needed to determine if these properties are considered eligible and if there are additional historic resources along the project corridor.

Archaeology: An Archaeology report has not yet been prepared. A desktop survey identified one previously recorded archaeological site and no cemeteries in the project area. A field survey will determine if additional archaeological resources exist along the project corridor.

Noise: Noise studies have not been prepared. A Type III assessment is anticipated. However, a Type I assessment would be required if the bridge alignment is significantly altered vertically or horizontally.

County: Banks

Public Involvement: Early coordination letters will be prepared and sent to State and Federal stakeholders during the concept phase. A public detour open house is not anticipated.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Constructability/Construction: N/A

Project Meetings: N/A

Other coordination to date: N/A

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Atkins
Design	Atkins
Right-of-Way Acquisition	GDOT Right of Way Office
Utility Coordination (Preconstruction)	GDOT District 1 Utility Office
Utility Relocation (Construction)	Utility Owner
Letting to Contract	GDOT Construction Bidding Administration Office
Construction Supervision	GDOT Construction Office
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Atkins
Environmental Mitigation	GDOT Environmental Services Office
Construction Inspection & Materials Testing	GDOT Materials and Testing

Project Cost Estimate Summary and Funding Responsibilities:						
	PE Activities		ROW	Reimbursable Utilities	CST*	Total Cost
	PE Funding	Section 404 Mitigation				
Date of Estimate:	06/04/2019	08/30/2019	10/23/2019	08/02/2019	10/03/2019	
Funded By:	GDOT	GDOT	GDOT	GDOT	GDOT	
Programmed Cost:	\$600,000		\$250,000	\$50,000	\$2,800,000	\$3,700,000
Estimated Cost:	\$600,000	\$37,546	\$137,000	\$35,000	\$4,008,508	\$4,818,054
Total Cost Difference:						(\$1,118,054)

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

**ROW Estimate received 10/23/2019, not approved.

County: Banks

ALTERNATIVES DISCUSSION

Preferred Alternative: Permanent Realignment – Construct a new bridge approximately 252 feet in length and 43.25 feet wide (two 12-ft lanes and 8-ft shoulder on both sides) on new alignment, east of the existing bridge.			
Estimated Property Impacts:	7 Parcels	Estimated Total Cost:	\$4,818,054
Estimated ROW Cost:	\$137,000	Estimated CST Time:	18 Months
Rationale: Permanent realignment on the east side of the existing bridge was selected as the preferred alternative. This alternative satisfies the project justification by minimizing travel delays that would be incurred with an off-site detour, while also balancing project costs and environmental impacts when compared to an on-site detour. The proposed geometry for the preferred alternative is consistent with the existing alignment where the new bridge will be located along a tangent section of roadway located between two reverse curves. While the on-site detour alternative would have a similar alignment, it would require an excessively long temporary bridge due to the skew and width of the river in addition to a significant amount of temporary fill and pavement, resulting in additional construction costs. The permanent realignment alternative will minimize right-of-way impacts when compared to the on-site detour since all required right-of-way will occur along the east side only while the on-site detour will result in right-of-way acquisition along both sides and the need for temporary easements. Due to the reasons noted above, permanent realignment alternative was selected as the preferred.			

No-Build Alternative: Retain existing bridge			
Estimated Property Impacts:	None	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	None
Rationale: This alternative would not meet the project justification as the structural integrity of the bridge is insufficient.			

Alternative 1: Off-site Detour – Construct a new bridge approximately 252 feet in length and 43.25 feet wide (two 12-ft lanes and 8-ft shoulder on bridge on both sides) in place on existing alignment utilizing off-site detour			
Estimated Property Impacts:	4 Parcels	Estimated Total Cost:	\$3,481,298
Estimated ROW Cost:	TBD	Estimated CST Time:	12 Months
Rationale: The proposed detour route is approximately 7 miles on state routes. While the length of the detour route is reasonable, the local officials expressed concerns about school bus routes and emergency response times. Specifically, there is concern the bus stops near the bridge will result in difficult to impossible maneuvering, excessive delays for rerouting, and added congestion at existing intersections. The local EMS anticipate triple the response times due to the distance of the closest response entity. As a result of the these concerns, this alternative was not selected as the preferred alternative.			

Additional Comments/ Information:

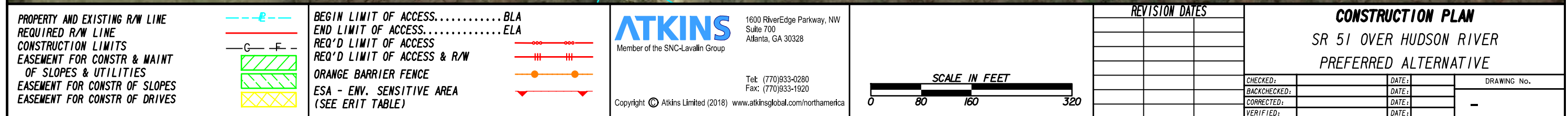
ROW Estimate for Alternative 1 not provided.

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction
 - b. Revisions to Programmed Costs forms, & Liquid AC Cost Adjustment forms
 - c. Right-of-Way

County: Banks

- d. Environmental Mitigation
 - e. Utilities
- 4. Concept Utility Report
- 5. Traffic diagrams or projections
- 6. S I & A Report(s)
- 7. Meeting Minutes
- 8. Detour Impact Forms





PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

ATKINS

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SCALE IN FEET

0

50

100

200

REVISION DATES

CHECKED:

BACKCHECKED:

CORRECTED:

VERIFIED:

DATE:

DATE:

DATE:

DATE:

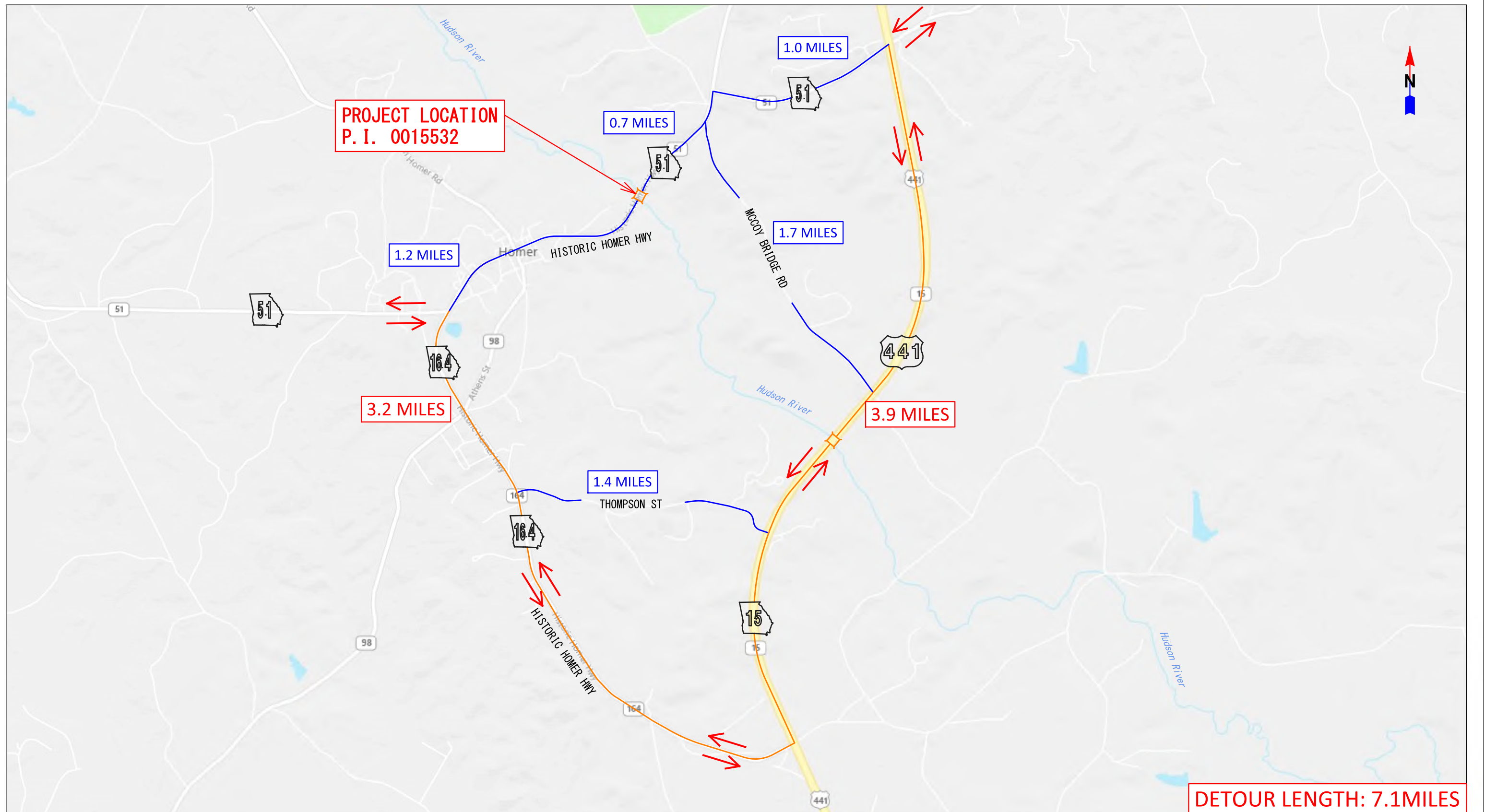
DRAWING No.

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CONSTRUCTION PLAN
SR 51 OVER HUDSON RIVER
ALTERNATIVE 1

10/23/2015

GPLN



LEGEND

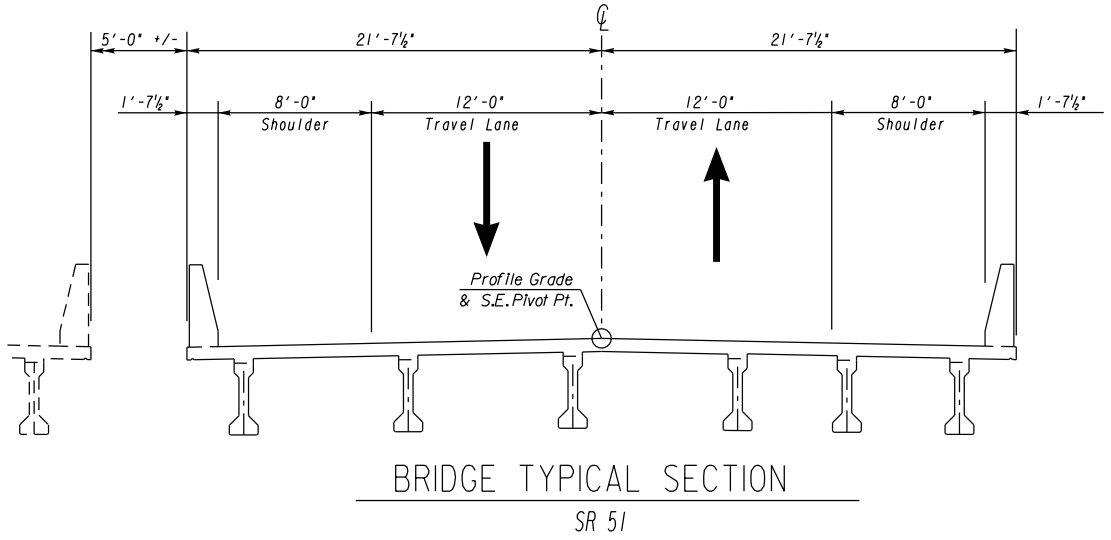
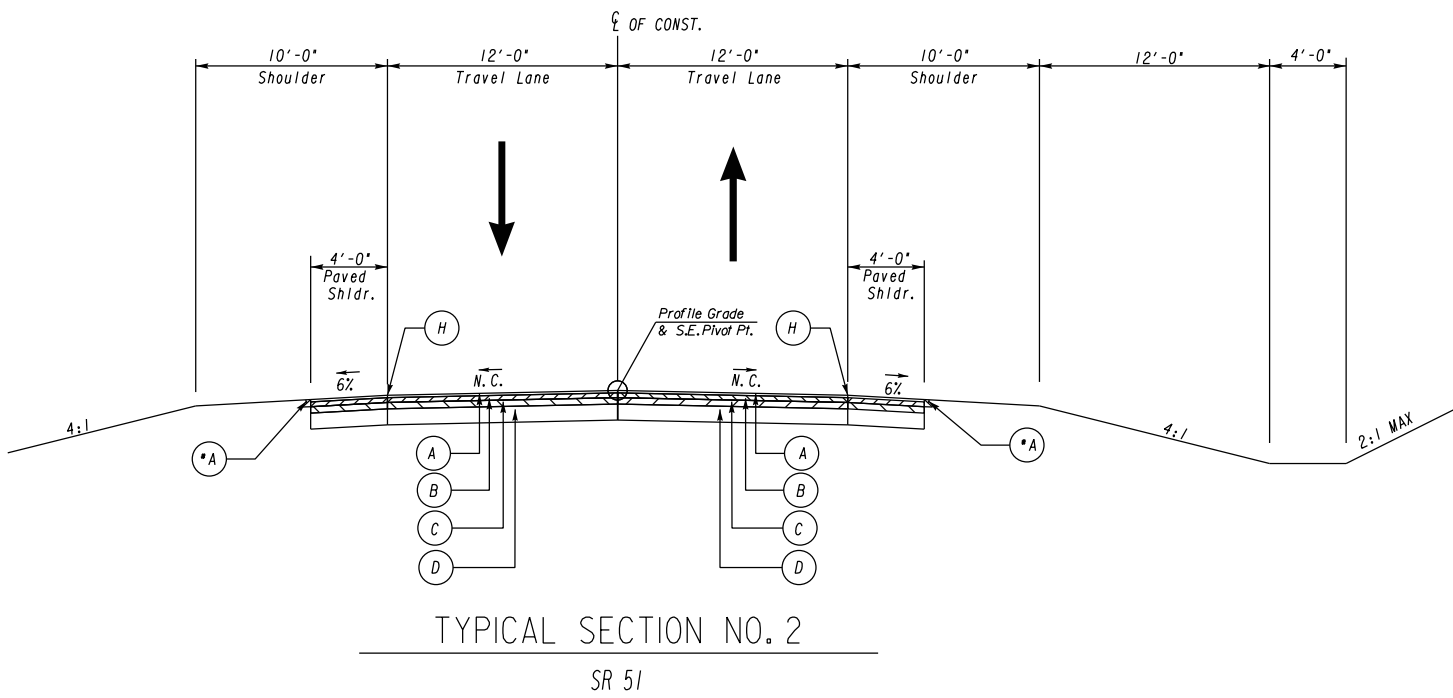
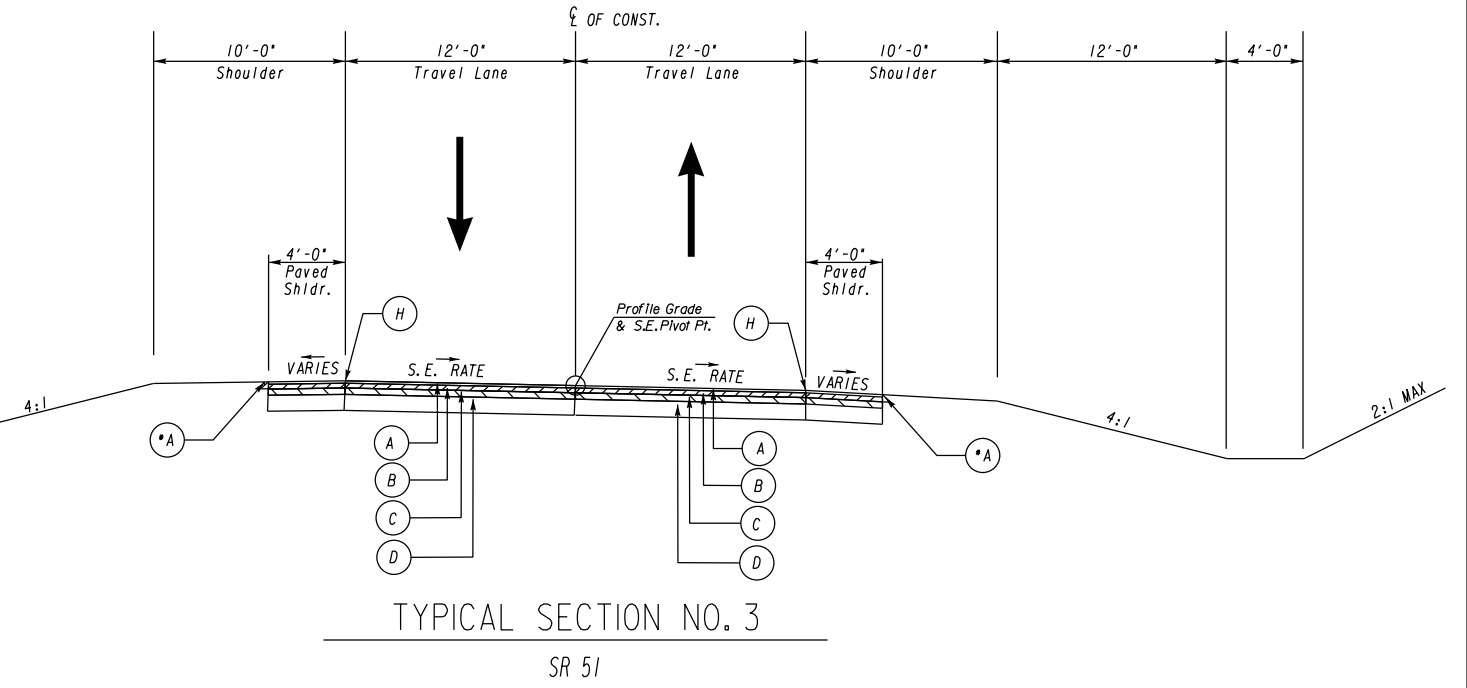
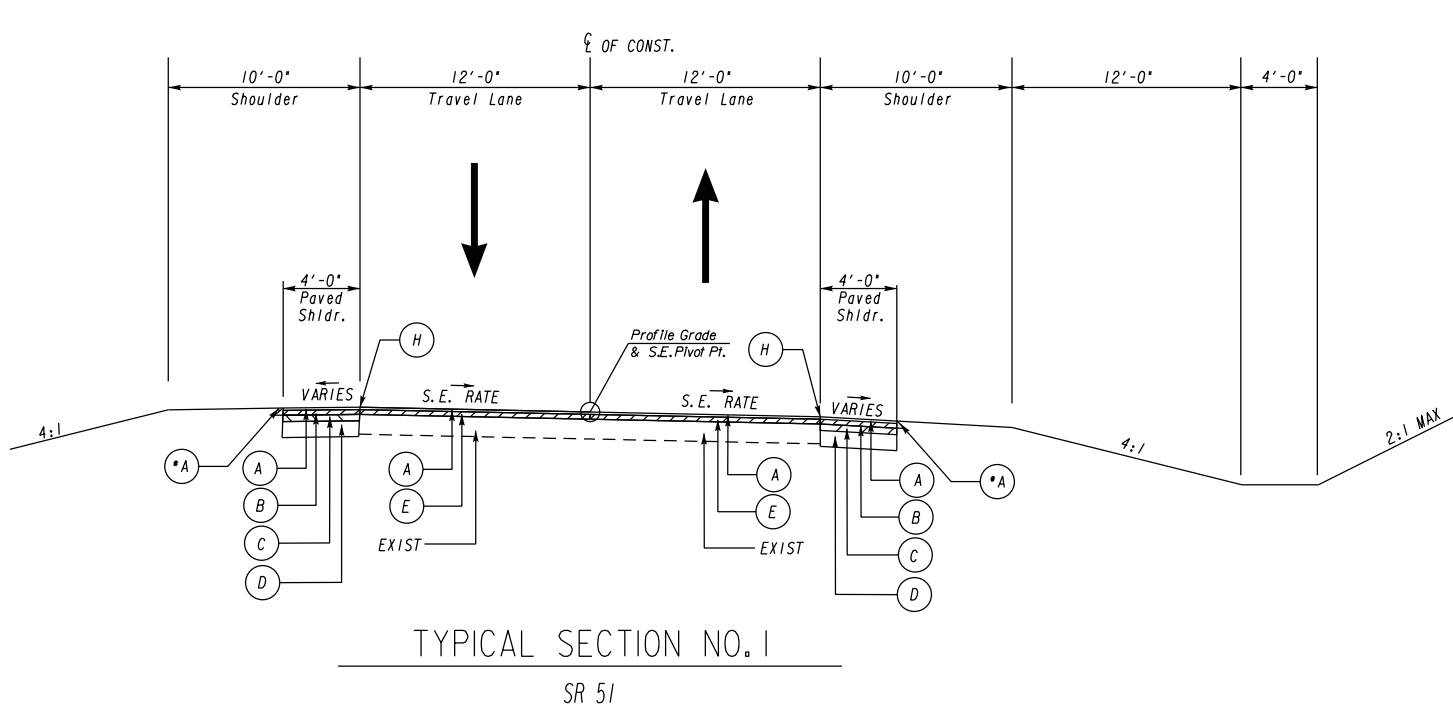
- PROPOSED DETOUR ROUTE
- OPEN TO LOCAL TRAFFIC

ATKINS

GDOT Georgia
Department
of Transportation

PI 0015532 BANKS COUNTY
BRIDGE REPLACEMENT
SR 51 @ HUDSON RIVER
(ALTERNATIVE 1)
PUBLIC DETOUR

N.T.S.



PAVEMENT MATERIAL SCHEDULE	
(A)	RECYCLED ASPH. CONC. 9.5 mm SUPERPAVE, TYPE II, BLEND 1, INCL. BITUM MAT'L & H LIME, 135 LBS./SY
(B)	RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR GP 2, INCL. BITUM MAT'L & H LIME, 220 LBS./SY
(C)	RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR GP 2, INCL. BITUM MAT'L & H LIME, 330 LBS./SY
(D)	GRADED AGGREGATE BASE COURSE, 10"
(E)	RECYCLED ASPH. CONC. LEVELING, INCL. BITUM. MAT'L & H LIME
(F)	MILL ASPH CONC PVMT, 1 1/4" DEPTH
(G)	PVMT REINF FABRIC STRIPS, TP 2, 18 IN WIDTH
(H)	INDENTATION RUMBLE STRIPS - GROUND IN PLACE (SKIP)

(A) : PAVEMENT EDGE TREATMENT
SEE GA DETAIL P-7 FOR DETAILS

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Scale: N.T.S.

REVISION DATES			TYPICAL SECTIONS			
			SR 51 OVER HUDSON RIVER			
CHECKED:		DATE:		DRAWING No.	05-0001	
BACKCHECKED:		DATE:				
CORRECTED:		DATE:				
VERIFIED:		DATE:				

1005532_CES.txt
STATE HIGHWAY AGENCY

DATE : 01/24/2020
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0015532 SPEC YEAR: 13
DESCRIPTION: SR 51 OVER HUDSON RIVER

ITEMS FOR JOB 0015532

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0015532	1.000	125000.00	125000.00
0015	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	80812.00	80812.00
0020	210-0100		LS	GRADING COMPLETE - 0015532	1.000	800000.00	800000.00
0030	310-1101		TN	GR AGGR BASE CRS, INCL MATL	2500.000	20.04	50100.00
0032	318-3000		TN	AGGR SURF CRS	120.000	33.54	4025.96
0033	402-1802		TN	RECYL AC PATCHING, INCL BM&HL	15.000	108.49	1627.48
0038	402-1812		TN	RECYL AC LEVELING, INC BM&HL	30.000	156.64	4699.35
0043	402-3102		TN	REC AC 9.5 MM SP, TPII, BL 1 INCL BM&HL	610.000	117.34	71581.14
0048	402-3121		TN	RECYL AC 25MM SP, GP1/2, BM&HL	950.000	105.42	100156.35
0053	402-3190		TN	RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL	525.000	109.73	57611.91
0058	413-0750		GL	TACK COAT	1300.000	3.86	5028.05
0063	432-0205		SY	MILL ASPH CONC PVMT/ 1.25 DEP	2890.000	6.67	19292.86
0068	433-1000		SY	REINF CONC APPROACH SLAB	280.000	211.64	59259.46
0073	441-0016		SY	DRIVEWAY CONCRETE, 6 IN TK	60.000	61.45	3687.51
0078	446-1100		LF	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	625.000	7.12	4453.39
0083	456-2015		GLM	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	0.750	11240.31	8430.23
0088	540-1102		LS	REM OF EX BR, BR NO - 011-0004-0	1.000	374300.00	374300.00
0093	550-2180		LF	SIDE DR PIPE 18,H 1-10	210.000	40.62	8530.82
0098	550-3418		EA	SAFETY END SECTION 18,SD,4:1	12.000	607.99	7295.92
0103	634-1200		EA	RIGHT OF WAY MARKERS	6.000	152.60	915.65
0108	641-1100		LF	GUARDRAIL, TP T	85.000	78.34	6659.07
0113	641-1200		LF	GUARDRAIL, TP W	575.000	24.03	13819.00
0118	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	4.000	1379.01	5516.07
0123	641-5015		EACH	GUARDRL ANCHOR, TP 12A, 31 IN, TANG, E/A	2.000	3098.89	6197.78
0128	543-9000		LS	CONSTR OF BRIDGE COMPLETE - 0015532	1.000	1472000.00	1472000.00
0133	603-2024		SY	STN DUMPED RIP RAP, TP 1, 24	490.000	61.40	30089.91
0138	603-7000		SY	PLASTIC FILTER FABRIC	490.000	4.47	2193.41
0143	163-0232		AC	TEMPORARY GRASSING	1.000	619.26	619.27
0148	163-0240		TN	MULCH	25.000	287.58	7189.74
0153	163-0300		EA	CONSTRUCTION EXIT	2.000	1866.16	3732.33

STATE HIGHWAY AGENCY

DATE : 01/24/2020

PAGE : 2

JOB ESTIMATE REPORT

0158	163-0528	LF	CONSTR AND REM FAB CK DAM -TP C SLT FN	850.000	13.22	11238.16
0163	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1975.000	1.16	2300.93
0168	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	850.000	3.98	3389.49
0173	165-0101	EA	MAINT OF CONST EXIT	2.000	796.80	1593.61
0178	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	6.000	250.70	1504.20
0183	167-1500	MO	WATER QUALITY INSPECTIONS	18.000	694.56	12502.19
0188	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	3835.000	3.84	14736.64
0193	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	300.000	3.00	900.78
0198	700-6910	AC	PERMANENT GRASSING	2.000	1393.53	2787.06
0203	700-7000	TN	AGRICULTURAL LIME	3.800	258.85	983.65
0208	700-8000	TN	FERTILIZER MIXED GRADE	1.000	761.51	761.51
0213	700-8100	LB	FERTILIZER NITROGEN CONTENT	95.000	2.80	266.31
0218	716-2000	SY	EROSION CONTROL MATS, SLOPES	2500.000	1.22	3057.23
0223	636-1036	SF	HWY SGN,TP1MAT,REFL SH TP 11	39.000	21.32	831.75
0228	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	21.000	20.61	432.89
0233	636-2070	LF	GALV STEEL POSTS, TP 7	127.000	9.50	1207.25
0238	632-0003	EA	CHANGEABLE MESS SIGN,PORT,TP 3	2.000	8862.46	17724.92
0243	652-5451	LF	SOLID TRAF STRIPE, 5 IN, WHITE	4360.000	0.48	2097.81
0248	652-5452	LF	SOLID TRAF STRIPE, 5 IN, YELLO	5125.000	0.43	2226.20
0253	652-6501	GLF	SKIP TRAF STRIPE, 5 IN, WHITE	170.000	0.15	25.90
0258	652-9002	SY	TRAFFIC STRIPE, YELLOW	285.000	2.92	833.54
0263	654-1001	EA	RAISED PVMT MARKERS TP 1	130.000	6.70	872.22
0268	654-1002	EA	RAISED PVMT MARKERS TP 2	4.000	6.43	25.73
0273	657-1085	LF	PRF PL SD PVT MKG,8,B/W,TP PB	624.000	8.38	5232.75
0278	657-6085	LF	PRF PL SD PVMT MKG,8,B/Y,TPPB	624.000	8.67	5414.90
0283	456-2012	GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	0.350	1600.52	560.19
0288	163-0520	LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	180.000	19.12	3442.12
0293	441-0303	EA	CONC SPILLWAY, TP 3	4.000	2406.01	9624.08

ITEM TOTAL	3441398.67
INFLATED ITEM TOTAL	3441398.67

TOTALS FOR JOB 0015532

ESTIMATED COST:	3441398.67
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	3441398.67

Interoffice Memo

FILE

PI NUMBER	0015532	PROJECT DESCRIPTION	Replacement of SR 51 Bridge over Hudson River in Banks County near Homer, Georgia.
OFFICE	Program Delivery		
DATE	Tuesday, January 28, 2020		

From: Kimberly Nesbitt, State Program Delivery Administrator

To: Erik Rohde, P.E., State Project Review Engineer
via email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

Project Manager:	Darrell Richardson
Management Let Date:	5/15/2022
Management Right of Way Date:	5/6/2021

Cost Estimate Review Iteration

Date of Submittal #1	08/30/2019
Date of Submittal #2	10/11/2019
Date of Submittal #3	01/28/2020

Summary of Programmed Costs and Proposed Revised Costs:

Estimate Type	Cost Estimate Amounts (T-Pro Without Inflation)	Last Estimate Date	Revised Cost Estimate
CONSTRUCTION	\$2,800,000.00	10/03/2019	\$4,008,507.80
RIGHT OF WAY	\$250,000.00	10/23/2019	\$137,000.00
UTILITIES	\$50,000.00	08/02/2019	\$35,000.00

Explanation for Cost Change and Contingency Justification:

Construction cost increased by updating CES with the new Cost Group/Item History and increasing the cost for Clearing and Grubbing by \$500,000.

Attachments:

Kimberly Nesbitt, State Program Delivery Administrator

Interoffice Memo

Design Phase Leader Validation of Final QC/QA for Construction Cost Estimate Used In This Revision to Programmed Costs:

Consultant Company or GDOT Design Office:	Atkins
---	--------

Printed Name:	Jason Kunkle
---------------	--------------

Title:	Project Manager
--------	-----------------

Signature:	
------------	--

Date:	1/28/2020
-------	-----------

FOR PROJECTS WITH A LOCAL SPONSOR	
If the project has a local sponsor, the project manager should ensure that the local authority completes the following validation indicating that it has reviewed the construction cost estimate and whether it is in concurrence with the construction costs presented.	
Please select the appropriate validation below upon review of the cost estimate:	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate and <u>concur</u> with the costs presented.	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate but <u>do not concur</u> with the costs presented.	
Please provide an explanation for non-concurrence.	
Local Authority Name and Title:	
Local Authority Signature:	
Date:	

[illegible]

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 10/21/2019

Project: N/A

Revised:

County: Banks

PI:

15532

Description: Bridge Replacement

Project Termini: SR 51 over Hudson River in Homer (Preferred Alternative)

Existing ROW: Varies

Parcels:

7

Required ROW: Varies

Land and Improvements \$16,680.00

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$0.00

Improvements \$0.00

Valuation Services \$13,125.00

Legal Services \$41,550.00

Relocation \$13,500.00

Demolition \$0.00

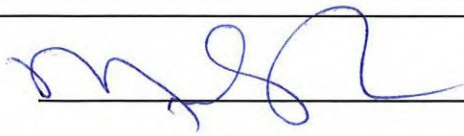
Administrative \$52,000.00

TOTAL ESTIMATED COSTS \$136,855.00

TOTAL ESTIMATED COSTS (ROUNDED) \$137,000.00

Preparation Credits	Hours	Signature

Prepared By:



CG#:

3213

(DATE)

10-23-19

Approved By:

CG#:

(DATE)

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

RIGHT OF WAY CHECKLIST

***The GDOT Project Manager is responsible for this section:**

Description: SR 51 OVER HUDSON RIVER IN HOMER (Preferred Alternative)

PI No.: 0015532

County: Banks

Project type: Bridge Replacement

Project length: 0.5 mile

TPRO Consultant field: ☐ GDOT design ☒ Consultant Design (contract with GDOT)
☐ local design

System type: ☒ on system ☐ off system

Request type: ☒ preliminary cost estimate ☐ cost estimate review only

Funds available for procurement contract to create estimate: ☒ Yes (\$5000 in contract allotment balance) ☐ No

Request to use ROW fund source: ☐ Yes-must have approval from Katrina Anderson to use ROW's fund source

Multiple alignments: ☒ Yes-all alignments must be submitted at the time of request ☐ No

Project Phase: ☒ concept ☐ preliminary plans ☐ final plans

Expected PFPR date: November

***The designer is responsible for this section:**

Typical section: ☐ urban ☒ rural ☐ both

Number of parcels: 7

Required right of way: 1.63 Measured in: ☒ Acres ☐ Sq. ft.

Permanent easement: 0.00 Measured in: ☐ Acres ☐ Sq. ft.

Driveway easement: 1449 Measured in: ☐ Acres ☒ Sq. ft.

➤ Limited access: ☐ Yes ☒ No ☐ Both

- Length of limited access: [Click here to enter text.](#)

- List limited access parcels: [Click here to enter text.](#)

➤ Displacement (s): ☐ residential ☐ commercial

- Residential parcels affected: None
- Commercial parcels affected: None

➤ Parking spaces displaced: ☐ Yes ☒ No amount: Click here to enter text.

- Residential parcels affected: Click here to enter text.
- Commercial parcels affected: Click here to enter text.

Billboards displaced: ☐ Yes ☒ No amount: Click here to enter text.

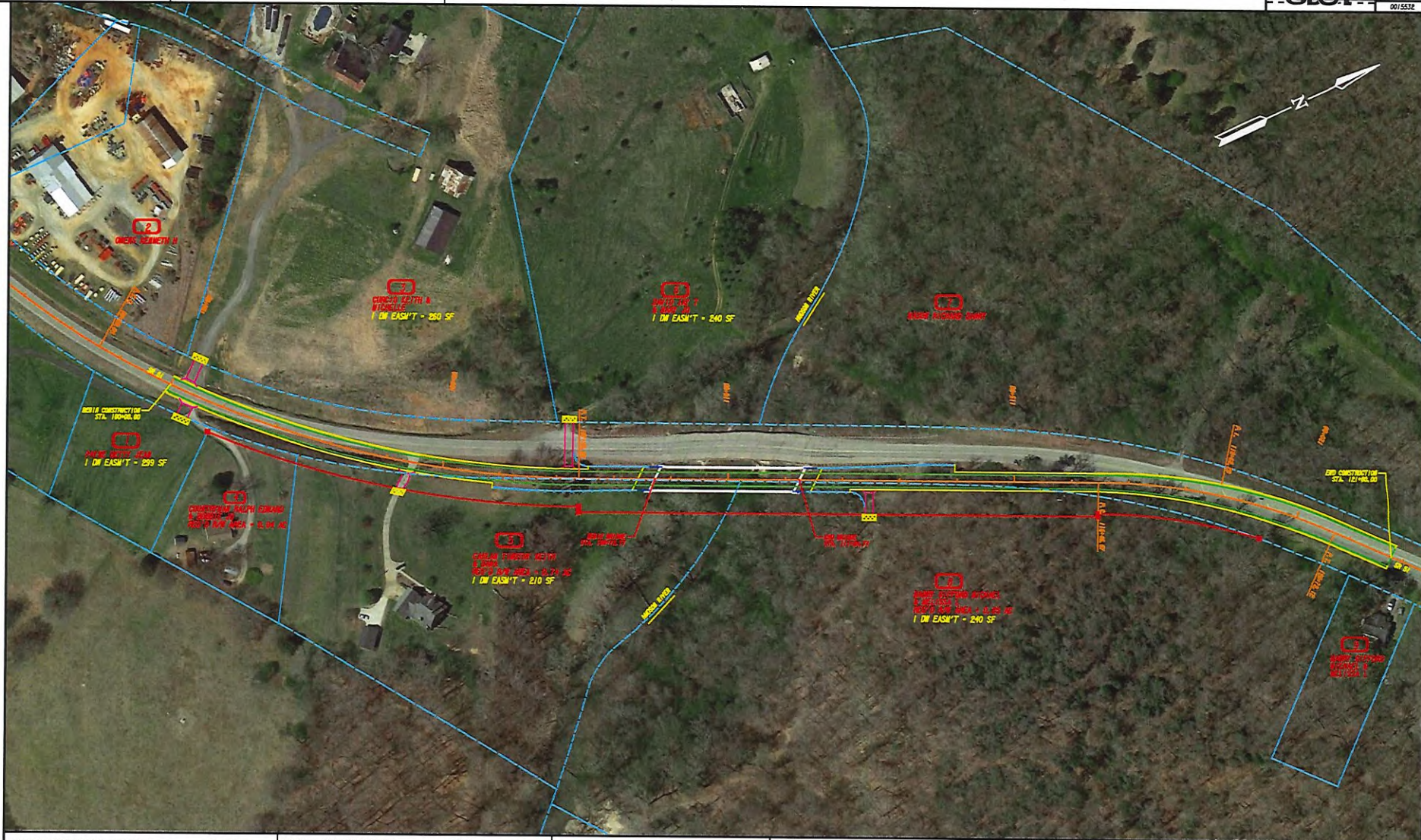
Attachments:

- Preconstruction Status Report
- Concept layout (for the concept phase)

Submit cost estimate request to: RW-ConceptMtgs_Est@dot.ga.gov

PM: _____ **date**_____

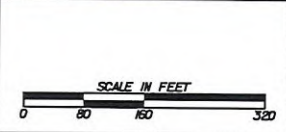
DPM review: _____ **date**_____



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINT
 OF SLOPES & UTILITIES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 RED'D LIMIT OF ACCESS
 RED'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

ATKINS
 Member of the SNC-Lavalin Group
 1600 RiverEdge Parkway, NW
 Suite 700
 Atlanta, GA 30328
 Tel: (770)933-0280
 Fax: (770)933-1920
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REVISION DATES	

CONSTRUCTION PLAN			
SR 51 OVER HUDSON RIVER			
ALTERNATIVE 1			
CHECKED:	DATE:	DRAWING No.	
BACHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Land Sales PI 0015532 Banks

[illegible]



Estimated Environmental Mitigation Costs

SR 51 over Hudson River

PI No. 0015532

Banks County

August 30, 2019

<i>Jurisdictional Stream Impacts</i>	
Wetland Name	Area
PS1	150 LF

Total	150 LF
-------	--------

Grandfathered Credits	1800.00
Stream Credits	\$11.97/credit

Estimated Stream Mitigation Costs	\$21,546.00
-----------------------------------	-------------

<i>Jurisdictional Wetland Impacts</i>	
Wetland Name	Area
WL1	0.040 Acres

Total	0.040 Acres
-------	-------------

Grandfathered Credits	0.32
Stream Credits	\$50,000.00/credit

Estimated Wetland Mitigation Costs	\$16,000.00
------------------------------------	-------------

Total Estimated Mitigation Costs	\$37,546.00
----------------------------------	-------------

*Calculations based on 2018 USACE SOP and Estimated Costs for Mitigation Credits (from GDOT January 2019). 2018 credits would apply to this project, which was used to calculate dollar amount.



Interoffice Memo

FILE

Project No: n/a
 County: Banks
 P.I.#: 0015532
 Description: SR 51 @ Hudson River in Homer - Bridge Replacement

Office: GAINESVILLE
 Date: August 2, 2019

FROM Yulonda Pride-Foster, District Utilities Manager

TO Darrell Richardson, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted with Concept Layout plans. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

Utility Owner	Reimbursable	Non-Reimbursable	In Contract/CIA (Non-Reimbursable)	Estimate Based on
Jackson EMC	\$35,000.00	\$0.00	\$0.00	Site Visit / Available Drawings
Windstream Telephone	\$0.00	\$43,200.00	\$0.00	Site Visit / Available Drawings
Total 100.00%	\$35,000.00	\$43,200.00	\$0.00	
Department Responsibility 100.00%	\$35,000.00	\$0.00	\$0.00	
Utility Owners Responsibility 0.00%	\$0.00	\$43,200.00	\$0.00	PFA Dated N/A with N/A

** Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Lynn Palmer at 770-533-8319.

Concept Utility Report

Project Number: N/A

District: One

County: Banks

Prepared by: Butch Jones

P.I. # 0015532

Date: August 2, 2019

Project Description: SR 51 @ Hudson River in Homer - Bridge Replacement

The information provided herein has been gathered from Georgia811 and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? Yes

Level: ☐ A ☒ B ☐ C ☐ D

Public Interest Determination (PID):

☐ Automatic ☐ Mandatory ☐ Consideration ☒ No Use ☐ Exempt

Is a separate utility funding phase recommended? No

Potential Project (Schedule/Budget) Impacts: If Alternate 1 is used it will result in an increase in reimbursable utility relocations and additional time for utility relocation.

Capital Improvement Projects (Utilities) Anticipated in the Area: N/A

Project Specific Recommendations for Avoidance/Mitigation: Recommend using Concept Preferred Location for construction.

Right of Way Coordination: Negotiate Permanent Easements with Utility Clause or purchase as Right of Way.

Environmental Coordination: N/A

Additional Remarks: If Alternate 1 is used it will result in an increase in reimbursable utility relocations and additional time for utility relocation.

Utilities have facilities within the project limits.

Utilities have been identified using Georgia811 and/or field visits.

Facility Owner	Facility Owner Contact Email Address	Existing Facilities/ Appurtenances	General Description of Location	Facilities to Avoid <i>approx. limits</i>	Facilities Retention Recommended <i>approx. limits</i>	Comments
Jackson EMC	Mike Brown	1 Power Distribution Poles-Single PH	North End of Bridge	N/A	N/A	N/A
Windstream Telephone	Harry Warren	Attached to 1 Power Distribution Pole and buried Fiber and Copper	Entire Project on both sides of the existing Bridge and Roadway	N/A	N/A	N/A
Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text
Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text	Click here to enter text

Note: To add additional rows, click the bottom right corner of the box above, then click the blue + that will appear. Please add additional rows prior to entering text.



Interoffice Memo

FILE: Banks County
P.I. # 0015532

DATE: August 1, 2019

FROM: Paul Tanner, State Transportation Planning Administrator

TO: Kimberly Nesbitt, State Program Delivery Administrator
Attention: Darrell Richardson

SUBJECT: Design Traffic Forecast for SR 51 @ Hudson River in Homer bridge replacement

Per request, we have reviewed the consultant's design traffic forecast for the above project. Based on the information furnished, we find the design traffic forecast to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecast for the above project is attached.

If you have any questions concerning this information please contact Andre Washington at 404-631-1925.

Keith McCage
HNTB
Design Traffic Consultant to GDOT
404-946-5731

RPT/KAM

ATKINS
1600 Riveredge
Parkway, Suite 700,
Atlanta, GA 30328

MEMORANDUM TO: Darrell Richardson
Georgia Department of Transportation, Office of Program Delivery

FROM: Jimmy Adams, AICP
Atkins

DATE: July 17th, 2019

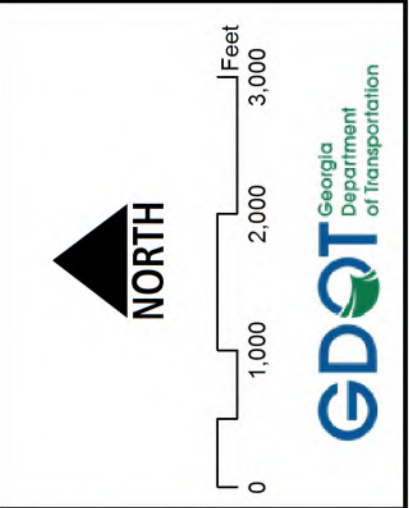
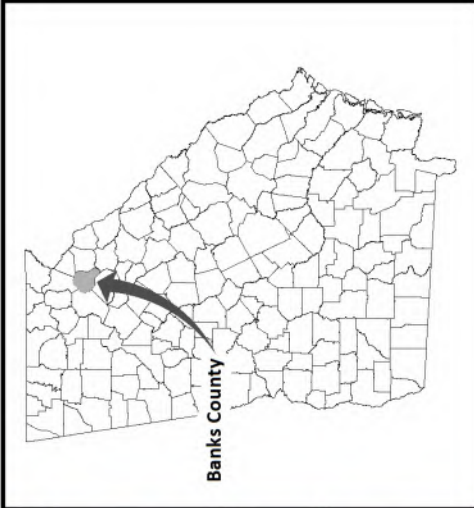
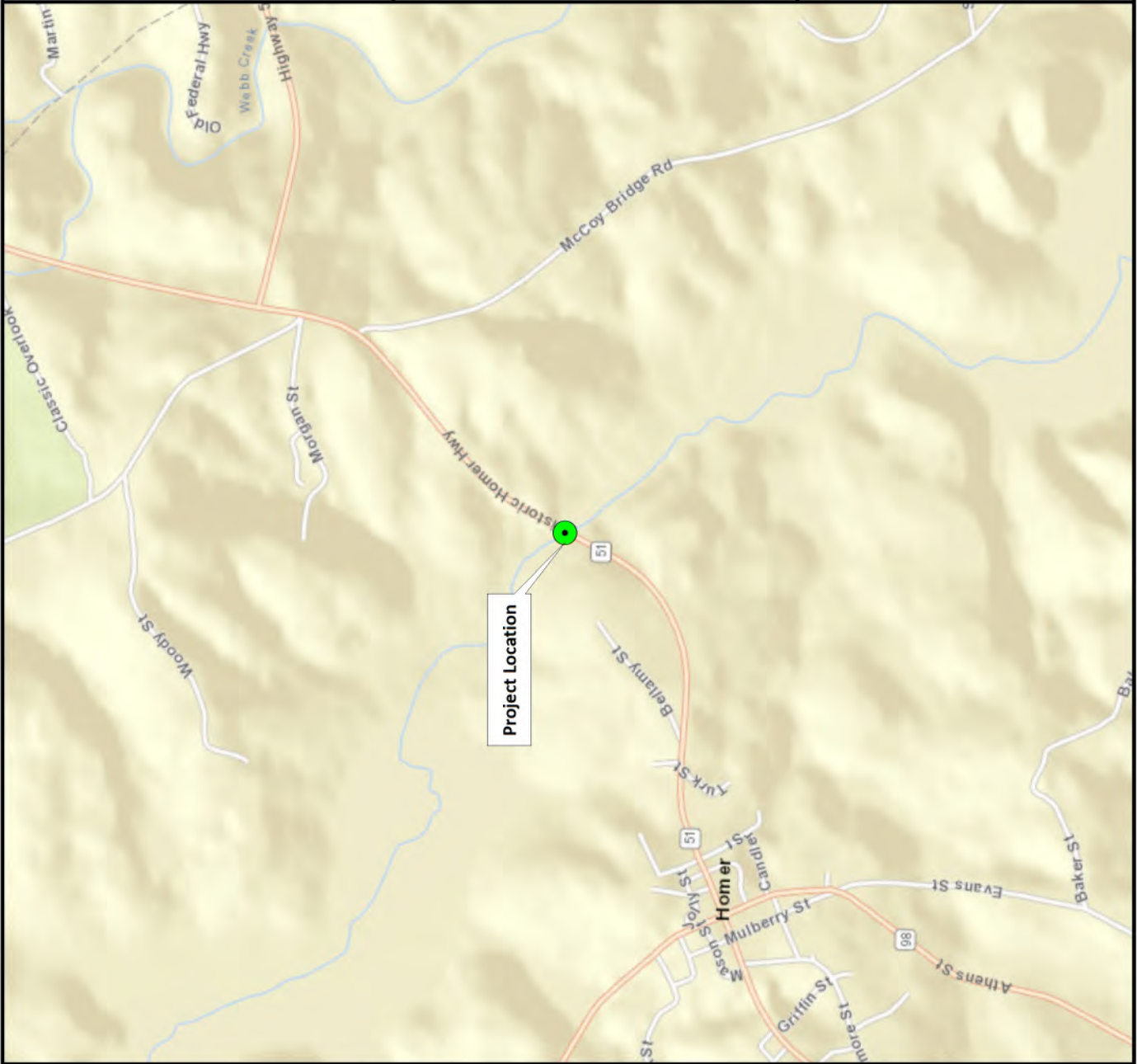
SUBJECT: Traffic Assignments for PI#0015532, Banks County, Historic
Homer Hwy (SR 51) Bridge Replacement over the Hudson
River

Atkins is furnishing Traffic Assignments for the above project as follows:

BRIDGE- ID 011-0004-0

	2019 (Existing Year)	2024 (Base Year)	2026 (Base Year +2)	2044 (Design Year)	2046 (Design Year + 2)
AADT	3275	3350	3400	3700	3750
DHV (AM/PM)	440/ 330	450/ 335	460/ 340	500/ 370	505/ 375
K% (AM/PM)	13.5%/ 10.0%				
D% (AM/PM)	66.5%/ 66.0%				
24 HR. T% - S.U.	7.5%				
24 HR. T% - COMB.	3.0%				
24 HR. T% - TOTAL	10.5%				
T% - S.U. (AM/PM)	6.0%/ 5.5%				
T% - COMB. (AM/PM)	2.0%/ 1.0%				
T% - TOTAL (AM/PM)	8.0%/ 6.5%				

If you have any questions concerning this information, please contact Jimmy Adams, AICP at (678) 247-2474 or jimmy.adams@atkinsglobal.com.



Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/1/2018

Parameters: Bridge Serial Number

Bridge Serial Number: 011-0004-0

County: Banks

SUFF. RATING: 82.5

Location & Geography

218 Datum:

0- Not Applicable

Signs & Attachments

Structure ID: 011-0004-0

200 Bridge Information: 06

*6 Feature Intersected: HUDSON RIVER

*7A Route Number Carried: SR00051

*7B Facility Carried: HISTORIC HOMER HWY / SR51

9 Location: IN HOMER

2 GDOT District: 4841100000 - D1 DISTRICT ONE GAINESVILLE

*91 Inspection Frequency: 24 Date: 08/22/2017

92A Fracture Critical Insp. Freq: 0 Date: 02/01/1901

92B Underwater Insp Freq: 0 Date: 02/01/1901

92C Other Spc. Insp Freq: 0 Date: 02/01/1901

* 4 Place Code: 39720

*5A Inventory Route(O/U): 1

5B Route Type: 2 - U.S. Numbered

5C Service Designation: 1- Mainline

5D Route Number: 00051

5E Directional Suffix: 0. Not applicable

*16 Latitude: 34 - 20.2878

*17 Longitude: 83 - 29.2596

98A Border Bridge: 0 98B: GA% 00

99 ID Number: 000000000000000

*100 STRAHNET: 0- The Feature is not a STRAHNET route.

12 Base Highway Network: Yes

13A LRS Inventory Route: 111005100

13B Sub Inventory Route: 0

101 Parallel Structure: N. No parallel structure exists

*102 Direction of Traffic: 2- Two Way

*264 Road Inventory Mile Post: 11.81

*208 Inspection Area: Area 01

*104 Highway System: 1-Inventory Route is on the NHS

*26 Functional Classification: 7- Rural - Major Collector

*204A Federal Route Type: S - Secondary.

*204B Federal Route Number: 01248

105 Federal Lands Highway: 0. Not applicable

*110 Truck Route: 0- The Feature is not part of the National Network for Trucks

217 Benchmark Elevation: 0000.001

* Location ID No: 011-00051D-0011.81E

*19 Bypass Length: 11

*20 Toll: 3- On a Free Road or Non-Highway

*21 Maintenance Responsibility: 01-State Highway Agency.

*22 Owner: 01-State Highway Agency.

*31 Design Load: 2- H 15

37 Historical Significance: 5- Not eligible for the National Register of Historic Places

205 Congressional District: 009

27 Year Constructed: 1937

106 Year Reconstructed: 1979

33 Bridge Median: 0-None

34 Skew: 30

35 Structure Flared: No

38 Navigation Control: 0- Navigation is not controlled by an Agency

213 Special Steel Design: 0- Not applicable or other

267A Type Paint Super Structure: 0- Not Applicable. Year : 0000

267B Type Paint Sub Structure: 0- Not Applicable Year : 0000

*42A Type of Service On: 1-Highway

*42B Type of Service Under: 5-Waterway

214A Movable Bridge: 0

214B Operator on Duty: 0

203 Type Bridge: 0 - Multiple combinations (be sure the different types are on file).
O. Concrete O. Concrete O. Concrete

259 Pile Encasement: 3

*43A Structure Type Main material: 1-Concrete

*43B Structure Type Main Type: 4-Tee Beam

45 Number of Main Spans: 6

44 Structure Type Approach: A:0- Other B: 0- Other

46 Number of Approach Spans: 0

226 Bridge Curve: A: Vertical: YesB: Horizontal: No

111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway

107 Deck Structure Type: 1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars

108A Wearing Surface Type: 6. Bituminous

108B Membrane Type: 0. None

108C Deck Protection: 8. Unknown

225 Expansion Joint Type: 02- Open or sealed concrete joint (silicone sealant).

242 Deck Drains: 1- Open Scuppers.

243A Parapet Location: 0- None present.

243B Parapet Height: 0.00

243C Parapet Width: 0.00

238A Curb Height: 0.0

238B Curb Material: 0- None.

239A Handrail Left: 9- Concrete New Jersey Type Barrier.

239B Handrail Right: 9- Concrete New Jersey Type Barrier.

*240 Median Barrier Rail: 0- None.

241A Bridge Median Height: 0

241B Bridge Median Width: 0

*230A Guardrail Location Direction Rear: 6- Both sides, approach and continuous.

*230B Guardrail Location Direction Fwd: 6- Both sides, approach and continuous.

*230C Guardrail Location Opposing Rear: 0- None.

*230D Guardrail Location Opposing Fwd: 0- None.

244 Approach Slab: 3- Forward and Rear.

224 Retaining Wall: 0- None.

233 Posted Speed Limit: 55

236 Warning Sign: No

234 Delineator: Yes

235 Hazard Boards: No

237A Gas: 00- Not Applicable

237B Water: 00- Not Applicable

237C Electric: 00- Not Applicable

237D Telephone: 00- Not Applicable

237E Sewer: 00- Not Applicable

247A Lighting: Street: No

247B Navigation: No

247C Aerial: No

*248 County Continuity No.: 14

36A Bridge Railings: 1- Meets current standards

36B Transition: 2- Inspected feature meets acceptable construction date standards.

36C Approach Guardrail: 1- Meets current standards

36D Approach Guardrail Ends: 1- Meets current standards

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:6/1/2018

Bridge Serial Number: 011-0004-0

County: Banks

SUFF. RATING: 82.5

Programming Data

201 Project Number: BHF-55-1 (24)
 202 Plans Available: 4- Plans in Infolmage.
 249 Proposed Project Number: 000000000000000000000000
 250A Reconstruction Approval Status: No
 250B Route Approval Status: No
 250C Approval Status Definition: 0
 250D Approval Status Federal: 0
 251Project Identification Number: 0015532
 252 Contract Date: 02/01/1901
 260 Seismic Number: 00000
 75A Type Work Proposed: 0- Not Applicable
 75B Work Done by: 0- Initial Inventory
 94 Bridge Improvement Cost:(X\$1,000) \$891
 95 Roadway Improvement Cost: (X\$1,000) \$89
 96 Total Improvement Cost: (X\$1,000) \$1336
 76 Improvement Length: 0.0'
 97 Year Improvement Cost Based On: 2013
 114 Future AADT: 5085
 115 Future AADT Year: 2032

Measurements:

*29 AADT: 3390
 *30 AADT Year: 2012
 109 % Truck Traffic: 1
 * 28A Lanes On: 2
 *28B Lanes Under: 0
 210A Tracks On: 00
 210B Tracks Under: 0
 * 48 Maximum Span Length: 38
 * 49 Structure Length: 228
 51 Bridge Roadway Width: 44.1'
 52 Deck Width: 46.9'
 * 47 Total Horizontal Clearance: 44.1'
 50A Curb / Sidewalk Width Left: 0.0
 50B Curb / Sidewalk Width Right: 0.0
 32 Approach Rdwy. Width: 27.0'
***229 Approach Roadway**
Rear Shoulder Left: Width: 2.3 *Right Width:*1.8 Type: 2 - Asphalt.
Fwd Shoulder: Left Width: 2 *Right Width:*2.6 Type: 2 - Asphalt.
Rear Pavement: Width: 22.6 *Type:*2- Asphalt.
Forward Pavement: Width: 22.4000000000000000002 *Type:*2- Asphalt.
Intersection Rear: 0 *Forward:*0

Ratings and Posting

65 Inventory Rating Method: 1-Load Factor (LF)
 63 Operating Rating Method: 1-Load Factor (LF)
 66A Inventory Type: 2 - HS loading.
 66B Inventory Rating: 32
 64A Operating Type: 2 - HS loading.
 64B Operating Rating: 53

231Calculated Loads

Posting Required
 231A *H-Modified:* 21 No
 231B *Type3/Tandem:* 27 No
 231C *Timber:* 37 No
 231D *HS-Modified:* 30 No
 231E *Type 3S2:* 40 No
 231F *Piggyback:* 40 No
 261 H Inventory Rating: 22
 262 H Operating Rating: 36
 67 Structural Evaluation: 5
 58 Deck Condition: 5 - Fair Condition
 59 Superstructure Condition: 5 - Fair Condition
 * 227 Collision Damage:
 60A Substructure Condition: 5 - Fair Condition
 60B Scour Condition: 6 - Satisfactory Condition
 60C Underwater Condition: N - Not Applicable
 71 Waterway Adequacy: 9-Superior to present desirable criteria.
 61 Channel Protection Cond.: 5-Somewhat better than minimum adequacy to tolerate being left in place as is.
 68 Deck Geometry: 7
 69 UnderClr. Horz/Vert: N
 72 Approach Alignment: 6-Minor reduction of vehicle operating speed required.
 62 Culvert: N - Not Applicable
 70 Bridge Posting Required: 5. Equal to or above legal loads
 41 Struct Open, Posted, CL: A. Open, no restriction
 * 103 Temporary Structure: No
232 Posted Loads
 232A *H-Modified:* 00
 232B *Type3/Tandem:* 00
 232C *Timber:* 00
 232D *HS-Modified:* 00
 232E *Type 3s2:* 00
 232F *Piggyback:* 00
 253 Notification Date: 02/01/1901
 258 Federal Notify Date: 02/01/1901

Hydraulic Data

113 Scour Critical: U. No Load Rating; no scour critical data entered.
 216A Water Depth: 01.9
 216B Bridge Height: 22.1
 222 Slope Protection: 1
 221A Spur Dike Rear:
 221B Spur Dike Fwd:
 219 Fender System: 0- None.
 220 Dolphin:
 223A Culvert Cover: 000
 223B Culvert Type: 0- Not Applicable
 223C Number of Barrels: 0
 223D Barrel Width: 0.0
 223E Barrel Height: 0.0
 223F Culvert Length: 0.0
 223G Culvert Apron: 0
 39 Navigation Vertical Clearance: 0'
 40 Navigation Horizontal Clearance: 0
 116 Navigation Vertical Clear Closed: 0

Meeting Minutes

Project:	PI 0015532 – Replacement of the SR 51 bridge over Hudson River in Banks County		
Subject:	Concept Team Meeting		
Date and time:	August 08, 2019 - 9:30 am		
Meeting place:	District 1 Office	Minutes by:	AMD
Attendees:	See Sign-In Sheet		

1. Introductions and Project Overview

- a. The GDOT PM began the meeting with project introductions and a brief project overview.

2. Review of Concept Report

- a. The Atkins PM went over the draft Concept Report (CR). The following was discussed in greater detail during the meeting:
 - i. Detour approval letters from EMS, Schools and County have not been received. GDOT PM will follow up if not received by August 10th.
 - ii. Atkins will adjust the proposed bridge length pending conceptual hydraulic analysis.
 - iii. GDOT will verify business and potential impacts to parcel southwest of existing bridge if bridge is closed for an off-site detour.
 - iv. Atkins will update utility involvements based on the Utility Cost Estimate received at the meeting.
 - v. GDOT Utilities recommended SUE for this project. However, with only three (3) utilities, no major utility concerns are anticipated, so SUE will not be utilized.
 - vi. Environmental special studies are underway. Atkins will update the concept report accordingly if updates received prior to CR submittal.
 - vii. Atkins is preparing the right of way estimate and will submit to GDOT for review and acceptance.
 - viii. If a temporary work bridge is needed during construction, the team recommended placing it east of the existing bridge.
 - ix. Atkins will verify there are no overlapping detours or projects within the proposed detour route.
 - x. Under the Preferred Alternative discussion, fix detour length to match the length shown on the detour display.
 - xi. Atkins will determine if 404 mitigation costs are needed and update the concept costs accordingly.
 - xii. Bridge widths will be verified with GDOT Bridge group before concept report submittal to GDOT.
 - xiii. Atkins will verify the cost estimate and construction duration for alternative 1. Cost appears low when compared to the Off-site detour alternative.

This document represents Atkins' interpretation of the meeting. Please contact the project manager if you have any questions.

Meeting Subject: Concept Team Meeting for PI Nos 0015532, 0015543 & 0015557

Location: District 1 Office

Time: 9:30 AM - 12:00 PM

Date: August 8, 2019

SIGN-IN SHEET

Print Name	Office	Phone	Email
Darrell Richardson	OPD-AECOM/DPE	678-730-1448	drichardson@dot.ga.gov
Adam Dykes	ATKINS	678-247-2444	Adam.Dykes@gmail.com
Amelia Rogers	Atkins	678-247-2497	amelia.rogers@atkinsglobal.com
John Hannaford	ATKINS	678-247-2432	john.hannaford@atkinsglobal.com
Jonathan Dills	DI RLO	770 533 8288	jdills@dot.ga.gov
THAO NGUYEN	ATKINS	678 247 2433	thao.nguyen@atkinsglobal.com
Tina Apperson	GDOT UT	770-533-8317	Tapperson@dot.ga.gov
Butch Jones	"	770-533-8315	bjones@dot.ga.gov
Jason Kunkle	ATKINS	678-247-2645	Jason.Kunkle@atkinsglobal.com
Brian Brisendine	GDOT/ITO		bbrisendine@dot.ga.gov
Scott Shelton	Atkins	678-247-2476	scott.shelton2@atkinsglobal.com
Rachel Bowen Ark	GDOT		
Rachel Rosenstien (osburn)	GDOT		
Jonathan Clark	GDOT		
Sue Anne Decker	GDOT	770-533-8490	sdeckar@dot.ga.gov
Philip "Shane" Jones	GDOT	706-969-3690	phjonex@dot.ga.gov

**Georgia Department of Transportation
Bridge Replacement Project
EMS and Fire Response Impact Form**

Using the attached project map, please respond to the questions below. Please provide as much information as you feel is necessary. Please respond to all questions – use “N/A” or “Non-known” if no relevant information to question is available. If additional information or mapping for this project is needed, please contact us.

1. Please rate the impact to Emergency Response services if the bridge were closed for up to a year.

☐ No Impact ☐ Low Impact ☒ Moderate Impact to ☒ High Impact
SHERIFF'S OFFICE FIRE/EMS

2. If there are concerns please specify. Be as specific as possible. (examples: condition of detour routes, located in a high call volume area, closure could affect response to schools, weight restrictions, expected new development in the area, coordination with partner agency required to facilitate service)

1) DETOUR ROUTE FOR FIRE/EMS WILL TRIPLE RESPONSE TIME DUE TO
DISTANCE OF CLOSEST RESPONSE ENTITY.

3. Are there any future time periods or events that you know of where bridge closure would be of particular concern? Please note the event and any details you are familiar with.

1) SCHOOL TRAFFIC TIMES - WOULD IMPEDE TRAFFIC FLOWS

4. Is there anyone you feel we should contact specifically regarding this project? Please note their name, contact information, and reason we should contact them?

1) SCHOOLS, MIKE BROWN + STAN DAVIS - mbrown@banks.k12.ga.us and
stan.davis@banks.k12.ga.us
2) Franklin County EMA, TERRY HARRIS - tharris@franklincountyga.com

5. Are there any additional comments you have for this project? Are the road names referenced the names the locals would use?

Hwy 51 in this area is Historic Homer Hwy

Form Completed by (Name): DEIDRA MOORE, EMA/E911

(Title): DIRECTOR

Date: 7/17/17

QUESTIONS:

1) WHEN WILL IT BEGIN?
2) HOW LONG WILL IT BE OUT?

Bridge Serial No. 011-0004-0, Banks County

Georgia Department of Transportation

Bridge Replacement Project

School Impact Form

Using the attached project map, please respond to the questions below. Please provide as much information as you feel is necessary. Please respond to all questions – use “N/A” or “Non-known” if no relevant information to question is available. If you need additional information or mapping for this project, please contact us.

1. How many School Buses crossings over this bridge are there per day?

Number of Buses 16 Number of Trips 32

2. Please rate the impact on service if the bridge were closed for up to a year?

Moderate Concerns

3. If concerns were identified, please specify what they are below, be as specific as possible (Conditions of detour route, location of students, new development expected, weight restrictions, etc.)

Route changes, stops near the bridge may require turn-arounds that might not be possible when the bridge is out, route delays, bottleneck of traffic at intersections that would be affected by the closing, the possibility of unknown consequences that might occur as a result of closing.

4. Are there any future time periods or events that you know of where bridge closure would be of particular concern? Please note the event and any details you are familiar with.

5. Is there anyone you feel we should contact specifically regarding this project? Please note their name, phone number, and reason we should contact them?

6. Are there any additional comments you have regarding the project? Are the road names referenced the names the locals would use?

Form Completed by (Name): Mike Brown

(Title): Banks County Schools transportation director

Date: April 26th 2017



Russell R. McMurry, P.E., Commissioner
One Georgia Center
600 West Peachtree Street, NW
Atlanta, GA 30308
(404) 631-1000 Main Office

September 16, 2019

Deidra Moore, Director
dmoore@co.banks.ga.us
Banks County Emergency Management Agency
150 Hudson Ridge, Suite 1
Homer, GA 30547

RE: Request for Comments on GDOT Bridge Replacement Project
GDOT Project PI No. 0015532, Banks County
Project Description: SR 51 @ HUDSON RIVER IN HOMER

Dear Director Moore:

The Georgia Department of Transportation (GDOT) is preparing the planning and environmental studies for the above referenced bridge replacement candidate. We propose to close this bridge during its construction and replacement which may take 6 to 12 months.

The purpose of this letter is to solicit your input concerning the potential impact of the proposed project on the provision of emergency services in the area. A detour map is attached illustrating the proposed route and location of the project.

To allow us to fully evaluate the concerns of all stakeholders, please respond by email using the address below to my attention by October 16, 2019. Documenting both the beneficial or adverse impacts of the proposed project as it relates to the interest of your agency is a vital part of the required environmental documentation. Your timely response is appreciated as there are several other bridges proposed for this fiscal year's cycle.

If you have any questions or comments concerning this project, please contact Darrell Richardson of the Office of Program Delivery at drichardson@dot.ga.gov or (678) 730-1448. Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to be "SHP", written over a horizontal line.

Sean H. Pharr
Program Delivery Bridge Program Manager

PI No. 0015532, Banks County
Bridge Replacement Project
Page | 2

AVS:KWN:CLB:DDC:DMR

Attachment: Impact Form or Emergency Medical Services (EMS)

cc: Albert V. Shelby, III, Director of Program Delivery
Kimberly Nesbitt, State Program Delivery Administrator
Chandria Brown, Asst. State Program Delivery Administrator
General Files

Georgia Department of Transportation
Bridge Replacement Project
Detour Impact Form for Emergency Medical Services (EMS)
PI No. 0015532, Bridge Serial No. 011-0004-0, Banks County

1. Please rate the impact to Emergency Response services if the bridge were closed for up to a year.

☐ No Impact

☐ Low Impact

☒ Moderate Impact

☐ High Impact

2. If concerns were identified on # 1, please specify what they are, and be as specific as possible (examples: condition of detour routes, located in a high call volume area, closure could affect response to schools, weight restrictions, expected new development in the area, coordination with partner agency required to facilitate service). *In order for the project to continue in the Preliminary Engineering phase, any concerns regarding impact on service, must be addressed by project staff. For example, if the box for "High Impact" is checked, a response of N/A would not be valid.*

- WILL REQUIRE EMS/FIRE + LAW REROUTE FOR RESPONSE.
- WILL REQUIRE BUS REROUTE DURING WORK.

3. Are there any future time periods or events that you know of where bridge closure would be of particular concern? Please note the event and any details you are familiar with.

SCHOOL SEASON

4. Is there anyone you feel we should contact specifically regarding this project? Please note their name, contact information, and reason we should contact them?

MIKE CLEVELAND @ BOE TRANSPORTATION - 678-725-5334
I WILL COPY ALL EMERGENCY SERVICES.

5. Are there any additional comments you have for this project? Are the road names referenced the names the locals would use?

WE REFER TO THIS AS HISTORIC HOMER HWY.

Form Completed by (Name):

DEIDRA MOORE

(Title):

EMA / E911 DIRECTOR

Date:

9/26/19



By checking this box, we support the bridge replacement utilizing an offsite detour.

